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Agricultural.

A New Market for Dairy Products.

The United States Department of Agriculture seems to think that a good market for the dairy products of the United States

die from starvation within a few months after birth.

During the forenoon the calves run with the cows, but in the afternoon they are separated, and the cows are milked at night. The milk sold in the larger towns or cities is often adulterated with water and sometimes boiled, but seldom cooled before delivery to the buyers, and perhaps if not all sold in the half day, it may be boiled again. The churning is most frequently done by shaking the cream or the whole milk in a wide-mouthed jar, and is heavily salted after it has been made. As the temperature is not reduced during this process, the product is often more like thick, sour cream than like the butter we know, and it may not contain more than sixty per cent. of butter fat, as was found in a sample tested by American chemists, while another sample being polished about the streets had less than thirty per cent. of fat, and the maker said she beat up the cream with a stick in a tin pail, and added some strong Spanish butter that was received in tin cans, yet that was sold at one cent a pat of about two-thirds of an ounce, or about twenty-four cents a pound.

Where butter imported from the United States, or even the poorer canned product from Spain is sold, this native butter has but little demand and often is not handled at all, though the price of imported butter

is the method of packing is important in gaining a new trade or increasing the demand, as conditions are different in that climate than for home trade. It is a general custom for those who use butter there to buy only in small quantities, owing to the lack of ice. While some five-pound packages or larger can be sold, the demand is greater for prints of from a half-pound to two pounds each. These should be put in packages not too expensive, but of some material that will not impart flavor to the butter, well made and tightly closed, that they may hold even melted butter, easily opened, and neat and attractive in appearance. Wrapping the prints in a parchment paper and then packing them in pasteboard boxes would probably help their sale if they can be kept cool until delivered to the consumer.

Butter sent by the department from New York, Vermont, Iowa and Wisconsin reflected at forty cents a pound on arrival, but when not kept in a refrigerator was slightly off flavor in nearly every case in a week after arrival. In cold storage it kept well for two or three weeks. But more tests are needed to know just what grades are likely to sell best there, and what methods of packing are likely to prove best. But one thing is certain, a uniform quality will give best results, and they suggest that the date of packing should be placed upon each package.

water run under it to wet the roots. We never saw anything gained by burying the roots in the earth, though some are particular about that with every root that is set, yet we have seen a bunch which had all the roots cut off before it was put in the house come out as bright as those that had the roots buried in the soil. We liked about once in ten or twelve feet to put a narrow board across the pit to keep it from falling down. Then with a ventilator that could control the temperature, it was not difficult to blanch it at Christmas or hold it until February. Early blanching requires a temperature of about 40° to 45°, while to hold it until spring the temperature should be as near 34° as it can be maintained. By opening the ventilators at night and closing them in the morning the house can be cooled.

CARE OF SPRING CALVES.

When there is a decrease in the supply of milk, the spring calves are usually the first to suffer from its lack, unless the policy has been to stop feeding it to them as soon as they were able to eat grass or hay. We think it should be given them daily as long as it can be spared for that purpose, and when it is no longer available, substitute a little wheat bran or oats. Even oat straw that was cut while the grain was in the milk makes a good feed for them, and so does rye or early cut clover hay. We think that no small part of the grain that

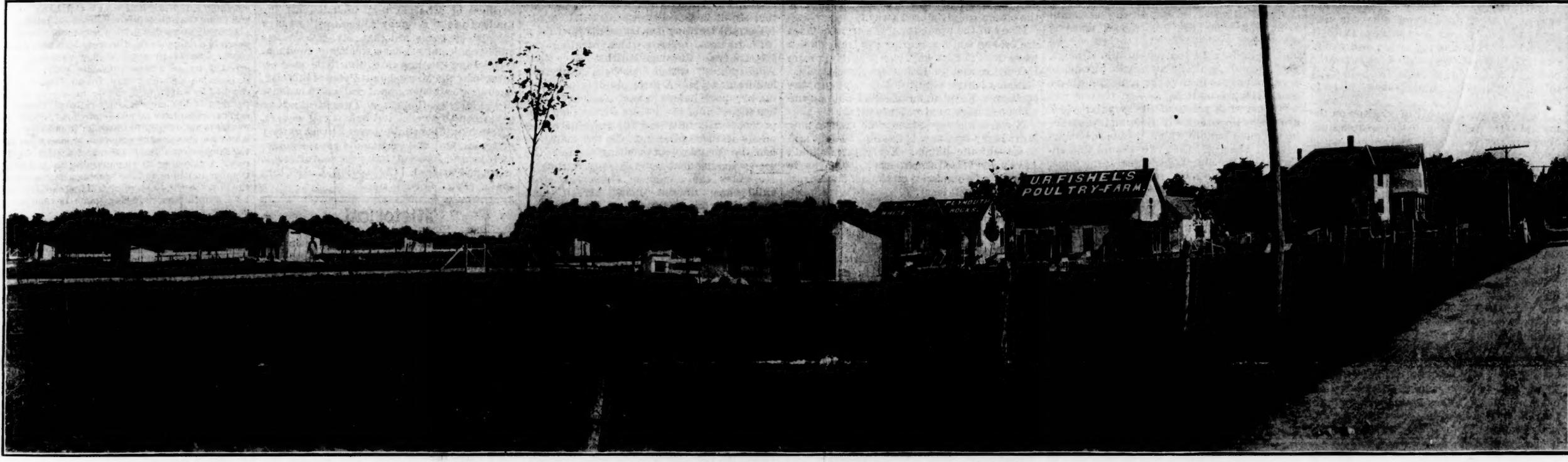
more friable, and it drains better, works better and resists a drought better. Even though the cover crop is only rye, which some assert can return nothing to the soil that it has not taken from it, we have seen good crops of potatoes and corn growing where the rye was plowed under, and in some cases this was in fields so nearly barren that we should not have expected much of a crop without the rye. A farmer in the western part of Massachusetts once showed us a very handsome field of corn growing where we had plowed under a rye crop on light land, and he said he had persuaded some of his neighbors to try the same experiment, but he said the rye crop looked so well that they decided to harvest the rye for the grain, and that neither grew a corn crop nor enriched the land. Another farmer in Plymouth County showed us a field which he had grown corn on for twenty years or thereabout, putting on no manure, as it was more than a mile from his barnyard, but sowing rye among the corn at the last hoeing, and plowing it before planting corn the next year. He said by this practice the field had increased in its production from ten or fifteen bushels per acre to the acre up to thirty or even forty bushels per acre in a good season, and he thought it looked rich enough then to grow a good crop of grass or clover.

DRAINING HOLLOW IN THE MEADOWS.

There are often basins in the grass lands

est between the farmers and the sugar makers. The factory must see that the beet grower is satisfied, or there will be no beets grown to keep it running; the beet grower is stimulated to careful work by the sliding scale paid for his beets. Not only the tonnage yield per acre, but the sugar content in the beet depends largely upon cultural conditions. If the grower's beets go fourteen percent, sugar he gets \$4 a ton, and for every one per cent. of sugar above fourteen the factory offers him thirty-three cents. The Rocky Ford sugar content has been very high, and the prices paid by the factory have averaged \$5.17 per ton, which will make a total paid this year to the farmers of the valley in excess of \$500,000. Moreover, the pay is spot cash, and there are no commissions or losses. Like Jones of Binghamton, the factory pays the freight. Some of the beets come one hundred miles, and these farmers net exactly as much as though their land were within sight of the factory. I saw a long line of twenty-eight cars on the Santa Fe road all piled full of sugar beets waiting to be switched up alongside the factory.

How much can a man make off of an acre of beets, and how many acres can he grow? Well, in the first place, the beet needs to be rotated. The best farmers do not, as a rule, plant beets two successive years on the same land, so they must perform raise other



PARTIAL VIEW OF THE HOME OF "FISHEL'S" WHITE PLYMOUTH ROCKS, HOPE, IND. PHOTO WAS TAKEN LOOKING NORTH.

can be found in Porto Rico and Cuba, and possibly in some of the other West India Islands, particularly in those which the United States has been trying to purchase from Denmark. It must be built up gradually, as many of the natives do not use butter, considering it a luxury only to be used on special occasions, while others have become so accustomed to the very poor and usually rancid butter of native production that they would not believe that a perfectly sweet butter was the pure article because it lacked the flavor to which they are accustomed.

Yet with some two thousand or more Americans in Porto Rico, there should be a demand for American butter, as the native butter is made by the most primitive methods, the cattle kept being rather adapted to growing working oxen than for dairy purposes, and they are not what is usually called the dual-purpose cows, seldom weighing over eight hundred or nine hundred pounds each, and not productive of milk, as they are usually milked but once a day, and often not longer than to take what the calf does not demand. If a cow will give from five to eight quarts a day, besides what the calf takes, for five months in the year, she is called a pretty good one in Porto Rico, and would sell for about \$50. If any efforts have been made toward good breeding, they have been in the direction of producing working cattle, as they are used more for draft purposes than horses which are seldom seen excepting in the case of the richer planters.

One drawback to the sending of American butter there is the fact that but few of the dealers even in the larger cities are provided with refrigerators, ice chests or even ice with which to keep it cool, so that it is often soft, if not rancid, upon arrival, or at least, on delivery to the customers.

The milking is done on what might be called the natural plan, the calf being turned with the cow to start the milk, and then the milker beginning and trying to get three-fourths of the milk, while the calf has the remainder. It is useless to say that the calf does not get much, while the milker is satisfied with from one pint to six quarts a day. Some milk sellers will take up a cow and milk her whenever milk is called for, though it may be three or four times a day, in which case the calf is the loser, unless a different cow is taken each time. When the milk was taken from three teats, the calf having the other, it showed from 4.25 to 4.5 per cent. of butter fat, but when the three-fourths was taken away and the calf allowed to take what remained, it varied from 3.05 to 3.65 butter fat, and as there is only a guess as to when the three-fourths of the milk is taken, it often happens that they should use about three million pounds a year or ten times the amount they now use.

is much higher than of the native butter. As may be imagined, there is but little care taken to have cleanliness in the stables, the milking pails and cans, or in the handling of the milk, whether for sale or for butter or cheese making.

It may be asked if one could not go there with good cows and a good knowledge of the modern methods of dairying and make a good profit. We think so, but there would be certain conditions to be observed—the cows from the Southern States do better there than those from the Northern States, and those from New England or New York generally yield to the Texas fever, as the ticks which carry the contagion abound in some sections there. The dairyman who goes there should make arrangements for an ice plant before he begins. There are but few places where ice can be procured at all. Near San Juan and Ponce it is sold at eighty to ninety cents per hundred pounds, and in those cities it retails at about two cents a pound, while at the interior towns it may range from five to eight cents a pound. In a tropical climate it is almost indispensable to use ice in handling milk for sale or for butter making. Another thing should be remembered, that cattle taken there in the spring do not do as well as those taken there in the fall, and are more liable to die from Texas fever, but tuberculosis is almost an unknown disease. Numbers that were given the tuberculin test less than one per cent. responded.

Some cheese is made in Porto Rico and probably some in the other islands, but it is like the butter, of inferior quality and in small demand, but the imports have increased in amount and value during the past three years, though they fell off very much in the years from 1895 to 1898, inclusive. The imports from the Netherlands, which were formerly their chief source of supply, have been greatly reduced.

One drawback to the sending of Ameri-

Farm Hints for November.

CABBAGES FOR WINTER AND SPRING MARKET.

Although October is usually called the harvest month, November has many crops, too, that have not yet been harvested. Many of the cabbages have already been brought to market and sold, but there are those who will store them for the winter and spring demand. They need to be harvested soon, and in dry weather if possible, but this may not come, pull them and place them roots upward, that all the water may drain out of them. When this was done we have kept them very well in a cellar, but they do not keep well in some cellars, and although we have stored them upright and packed the roots in earth, and have hung them up to the floor joists heads downward, we never succeeded in making a sure thing of their keeping perfectly sound, and we were not sure whether the cellar was too dry or too damp, too warm or too cold. We have kept them until spring by placing fence rails on the ground in a sheltered place and placing the cabbage on them roots upward, then covering with straw or coarse hay, and that with about six inches of earth, to which we added as much more when we thought the soil was likely to freeze solid before morning. The rails gave opportunity for the water that fell or the snow to drain off, and they froze solidly enough so that January or February thaws did not affect them. The earth over them should be a coarse mound, to shed as much of the rain as possible, and we usually put a wisp of straw at the ends of the heap, and if the wisp is large enough to two to give ventilation. We have known others to try the same plan, and scarcely saw a cabbage that was merchantable in the spring. We have also wintered English or flat turnips in the same way, and while there was some loss, the advanced price in the spring compensated for that. The rutabaga turnips always wintered well in the cellar.

CELERI KEEPING.

The fall celery having been boarded up, blanched and sold, that which is intended for the spring market should be put in the pits or trenches with but little banking for blanching. That which may find market at Christmas may be blanched by packing with earth; the keeping in the pits and trenches depends much upon the care with which it is handled when put in. It never should be handled when wet, or when there is any frost on the leaves, and all broken or bruised stalks should be taken off. Then it should be so packed that it will stand upright, and not lean over to crowd on the other rows. The root should be tight enough to keep out all water, and the house or pit gets too warm water it, but not put any water on leaves or stalks. Let the

has been made in the milk production of our cows is due about as much to the better feeding of our calves, forcing earlier maturity and bringing them at two years old as far advanced and as well developed as they used to be at three or four years old, as it is to the more liberal feeding and the better-balanced rations given them after they come fresh. One cannot take a calf that has been on short rations until it has developed to a cow, and make it a good milk producer after that by more liberal feeding. Give it a good start when young, and then it should make a good cow if it is from good stock.

CARE OF POULTRY.

We advised that the turkeys and other poultry that are intended for the Thanksgiving market should be fed liberally for four or five weeks before they are to be dressed, but they can scarcely be given too much or too rich food the next two weeks. Where the demand is for birds with yellow skin and yellow meat, use plenty of good sound yellow corn and corn meal, but if the market, like New York city, calls for white skin and white flesh, use wheat instead. One is about as low in price for the feeding quality as the other. The pullets should now be put in the house, if it has not been done already, and everything made snug, that they may have no draught on them to produce the roup, or even colds. There is not much danger of overfeeding the pullets while they are growing, and they need more than the older fowl. Yet when the latter have begun to lay they must be well fed. An actual test has shown that the laying hen requires about one-third more food for the same weight than the idle or unproductive hen. If any hens have not finished moulting give them all the corn and meat scraps they will eat, and fatten them for the market. If they delay moulting until November they are probably not healthy, and certainly not very vigorous, and they must be fed all winter on the chance of obtaining a few eggs in the spring, and those eggs will sell.

FALL PLOWING.

A few years ago we thought that the idea of plowing lands in the fall which were intended for sowing or cultivating in the spring was becoming less popular among the farmers, but since they have got an idea of sowing cover crops upon the fall-plowed land, to be plowed under in the spring to furnish humus or vegetable matter, they seem to think more favorably of it and to practice it more. The cover crop removes the objection which many made to the fall plowing, the washing of the surface on side hills, which are so large a part of the farms in New England. Then the vegetable matter turned under by the plow makes the soil

that are not drained, as there are no tile drains under them, and no outlet for the water provided. They make nice skating ponds for the small children, because the water is seldom deep enough to drown one if he breaks through the ice, but, really, that is about all they are good for. The water stands there, perhaps, with the ice over it until the grass roots have rotted, and if any vegetation starts, it is but of the coarsest water grasses or weeds, the seeds of which have blown in there. Yet these basins are often of the deepest and most fertile soil, having received for years the wash of the surface around them, manure fertilizer or decayed vegetation. If they were properly drained they could be made to produce as much as three times their area in high land. They might not do it the first year, if the land has been poisoned or soured by the stagnant water that stands on them so long in winter, but they only need turning up to the sun. While the tile drain is the best remedy for them, as the channels which the water makes in going down to the tile also act as a passage-way for the air to get down and assist in the decomposition of the fertilizing elements there, warming the soil. But a surface drain can be cut quickly and cheaply in most cases, and it will prove of value enough to make the original outlay profitable.

Notes from Washington, D. C.

Rocky Ford furnishes a striking example of what extensive farming will accomplish for a community. The farmers grow the famous Rocky Ford cantaloupes which are shipped all over the United States as a superior fruit; they also raise thousands of tons of sugar beets to supply the new beet-sugar factory. The melons are the most profitable under favorable market conditions; but the beets furnish the surest crop, and are a money-maker with.

Three years ago the sugar factory was completed at a cost of over a million dollars and with a capacity of one thousand tons of beets a day, or from 125,000 to 150,000 pounds of sugar daily, according to the amount of sucrose contained in the beets. At that time the population of the town was about nine hundred. Today it is 3400, and the surrounding country has settled correspondingly. And the factory is not yet nearly in full operation, because it takes years for the farmers to get in a full beet acreage. The first year the beets raised were but 43,000 tons; last year the crop was ninety thousand tons; this year it will be over one hundred thousand tons. In 1900, four thousand acres were in beets; in 1901, 9200 acres were planted, and this year beet fields cover fifteen thousand acres.

There is a thorough community of inter-

ops. But the Rocky Ford beet fields run generally from five to twenty acres. The cost of raising the crop is \$25 or \$30 an acre, counting all labor; but it costs practically the same as it does with most crops to raise, say eight tons to the acre, as twenty-five tons, so the profit depends. Hardly a field crop, it seems, needs more than the exercise of good common sense combined with scientific knowledge. Twenty-five tons per acre is above the average yield, but it is by no means the limit. The average tonnage is constantly increasing year by year, as the growers study more the habits of the beet. The Agricultural Department gives thirty-eight tons per acre as the ideal average yield, with about fifty thousand beets to the acre, each beet weighing two pounds. This yield has been surpassed, however, on a prize acre with a forty-ton crop. If the careful grower can average twenty-five tons, he can clear \$100 an acre, and he can easily take care of ten acres and also raise fruit or other crops in addition.

The beet needs a deep soil sufficiently loose to allow its taproot to easily penetrate; if the subsoil is hard the tap branches and the beet loses its sugar content. The depth to which the root will descend is not generally known. At the Paris Exposition a glass tube contained a sugar beet root whose tap was thirty-four feet long. This had been obtained by digging down alongside the root and then carefully spraying away the dirt. With this habit of deep rooting, the crop thrives on but little water. Also if water is scarce and the ground gets dry, the beets will stand still for weeks, and then start forward again into full vigor as soon as moisture comes. Subsoiling to a depth of fourteen or sixteen inches is practiced by the beet farmers upon first plowing land for beets.

The Rocky Ford irrigation ditch, bringing water from the Arkansas river, always carries a sediment, which furnishes renewed life to the soil, like the muddy flow of the Nile. Instead of decreasing the fertility, the land becomes better every year, and the farmers use no commercial fertilizer.

Colorado Springs is what is known as a double distilled "dry town." It is not only in the heart of the arid region with but six or seven inches of annual rainfall, but all deeds to property contain a clause providing that if intoxicating liquors are sold upon the property, it may be taken by the city corporation. And some of the Western delegates to the Irrigation Congress missed that class of irrigation which is largely practiced, even in the driest regions, the wetting of the arid glands. However, like other "dry towns" it was found upon careful examination that there is a great deal of growing done.

Several very handsomely appointed drug stores sold some very fine ginger ale—with and without—and other things.

Boston Provision Market.

The pork and lard market is not much changed, with fresh ribs on one-half cent, and corned fresh and smoked shoulders higher. Short cut and heavy backs \$24, long cut \$23, medium \$23.50, lean ends \$27, bean pork \$19 to \$19.75, fresh ribs 13 cents, corned and fresh shoulders 102 cents, smoked shoulders 11 cents, lard 12 cents, in pairs 13 to 13 cents, hams 13 to 14 cents, skinned hams 13 cents, sausage 11 cents, Frankfurts sausage 10 cents, boiled cents, hams 19 to 19 cents, bacon 17 to 18 cents, bologna 10 cents, pressed hams 13 cents, raw leaf lard 13 cents, rendered leaf lard 13 cents, in pairs 14 to 14 cents, pork tongues \$25.50, loose salt pork 12 cents, briskets 14 cents, sausage meat 11 cents, country dressed hogs 8 cents.

Boston packers have still further increased their killing of hogs, the total for the week having been about 26,800; preceding week, 23,900; same week a year ago 29,500. For export the demand has been rather light, the total value by Boston packers for the week having been about \$105,000; preceding week, \$190,000; same week last year, \$170,000.

Pork packing in the West has been considerably increased, according to the Cincinnati Price Current, the total packing for the week having been 365,000 hogs; preceding week, 305,000; same week a year ago, 400,000. Since March 1 the total packing in the West has been 11,450,000; same time a year ago, 14,320,000; decrease, 2,940,000.

Beef is easier than a week ago, though light cattle are reported to be in better demand relatively, with a fair trade late in the week.

Extra sides 11 to 11½ cents, heavy 9 to 10½ cents, good 7 to 8½ cents, light grass and cows 6 to 7 cents, extra hinds 13 to 14 cents, good 10 to 12 cents, light 6 to 6½ cents, extra fore 8 cents, heavy 7½ to 8½ cents, good 7 cents, light 6 to 6½ cents, backs 7 to 10 cents, ruffles 4 to 7 cents, chuck 5 to 8 cents, short ribs 9 to 14 cents, rounds 7 to 9 cents, rumps 8 to 15 cents, rumps and loins 8 to 20 cents, loins 8 to 24 cents.

Beef arrivals for the week were small, being 123 cars for Boston and 42 cars for export, a total of 165 cars; preceding week, 157 cars for Boston and 60 cars for export, a total of 197 cars; same week a year ago, 155 cars for Boston and 98 cars for export, a total of 257 cars.

The mutton market is over supplied and easy. Lambs in particular are in very full supply, while the market is dull. Veals are in limited supply and pretty firm. Spring lamb 6 to 8½ cents, fancy 8 to 9 cents, lambs 5 to 6½ cents, mutton 5 to 6½ cents, choice 6 to 7 cents, veal 7 to 10½ cents, fancy and Brightons 10 to 11 cents.

Iced poultry is rather easy under a full supply. Large, dry-packed chickens and fowls are pretty firm. Iced turkeys 15 to 18 cents, iced fowls 12 to 13½ cents, iced chickens 11 to 13 cents, fancy fowls 13 to 15 cents, chickens 15 to 20 cents, fresh ducks 14 to 16 cents, live fowls and chickens 10 to 11 cents.

There is a small supply of venison on the market since the Maine open season began. Whole moose have been sold as low as 10 cents per pound, and from that up to 12 cents, while moose saddles, "well skinned out" and trimmed, have sold as high as 20 cents. Deer have sold at 12 to 15 cents whole, with venison saddles as high as 18 cents.

Vegetables in Boston Market.

Vegetable prices below are for wholesale lots, jobbers getting 15 to 20 per cent. more. Celery is still plenty, with Boston Market quoted at \$1.50 per long box, three dozen to the box; Pasquale, \$2.50 per long box; white, 40 cents for short boxes; cauliflower, 60 cents per long box; hothouse, \$2 to \$3 per long box; lettuce, 25 to 75 cents per box; radishes, 40 cents per box.

Potatoes are pretty firm. Houlton Green Mountain, 70 to 73 cents, Hebron 68 to 70 cents per bushel, York State, Green Mountains and round white 65 to 65 cents, Virginia sweet \$1.50 to \$1.75 per barrel, double heads \$2 to \$2.25.

Onions sell at \$2.75 per barrel, with jobbers by the bushel higher. Spanish, short roots, \$1 to \$1.20, long \$2.75.

The very outside range on cucumbers is \$7, with the market at \$6 to \$7, medium \$3 to \$3.50, No. 2 \$2 to \$2.50. Tomatoes sell all the way from 25 cents to \$1.25 per box, as to quality, green 25 cents.

Cabbages are quoted at \$1.50 a barrel, Savoy 60 cents per barrel.

Marrow squashes are quoted at \$15 per ton, Hubbard and Bay State \$20 per ton, Turban \$20 to \$25 per ton. By the barrel or 100 pounds they are jobbed accordingly. Pumpkins sell at 35 cents per box.

Yellow turnips sell at 85 cents per barrel, white French \$1.25 per barrel, white fat 50 cents per box, beets 40 cents, carrots 30 cents, parsnips 60 cents, egg plants \$1 to \$1.25 per box, mint 75 cents, cress 40 cents, parsley 25 cents per bushel, peppers \$1 to \$1.50 per barrel and 75 cents per box, salsify 75 cents per dozen, Brussels sprouts 15 cents per quart by the crate.

Native string beans of good quality are done. Southern are quoted at \$1.50 per basket, wax beans \$1.50, Lima beans \$1.50. Shell beans are about done for the season.

There is still some green corn on the market at 50 cents per box.

Local Fruit Market.

Apples are coming forward very freely, the receipts for the week having been 79,553 barrels; same time a year ago, 21,503 barrels. These tremendous receipts are only taken care of by very heavy shipments into export, and the market prevented from going entirely to pieces. For the week the exports were 54,949 barrels, including 40,720 barrels to Liverpool, 312 barrels to London, 614 barrels to Glasgow and 2303 barrels to Rio Janeiro by schooner Mabel Jordan.

This shipping of apples is something of an experiment, and the results will be anxiously watched. For the same week a year ago the shipments were but 4311 barrels; same time in 1900, 40,349 barrels; total since the season began, 228,839 barrels; same time in 1891, 13,602 barrels; same time in 1900, 107,984 barrels.

Apples are rather dull. Baldwins and Greenings \$1.25 to \$1.75 per barrel, Gravensteins \$2.25 to \$2.50, choice \$2.50 to \$3, Pippins and Porters \$1 to \$1.50, Hubbardstons \$1.25 to \$1.75, Pound Sweet \$1 to \$2, Twenty-ounce \$1.50 to \$2, Snows and Wealthies \$2 to \$2.75, Maine Hairs \$2 \$2.35, common apples 75 cents to \$1.25, box apples, cooking 25 cents to 50 cents, choice eating 75 cents to \$1.25. Small lots and jobbing from 50 cents to \$1 per barrel more.

The supply of pears is short, with prices at very wide range. At wholesale they may be quoted at \$3.50 to \$5 per barrel. In a jobbing way, they are quoted at 75 cents to \$1.25 per bushel for cooking, Bartletts \$2 to \$2.50, Beurre Bosc \$2 to \$3.50 per box, Beurre d'Anjou \$1.50 to \$2, Sheldon's \$3.50 to \$5, Seckel \$2 to \$4. Some of these varieties are out of the market.

Peaches are out of the market mostly in the way of natives, with a few California here and quoted at 50 cents to \$1.10 per box at wholesale for Salways; Clingstones 75 cents per box.

For the week the receipts of peaches were but 275 packages; same week a year ago, 100 packages; this year, all California.

Native grapes are in rather more abundant supply and prices are easier. Delawares and Niagara are scarce, however, and about out of market. Delawares 15 to 18 cents, Concord 10 to 12 cents, Niagara 17 to 18 cents, Salens 13 to 15 cents, with jobbing prices 1 to 2 cents more. California Tokays sell at \$1.50 to \$2.50 per crate for four baskets. Foreign are quoted at \$3 to \$9 per barrel.

For the week the receipts of grapes were 667 barrels foreign, 263,418 baskets and 20,972 carriers domestic; same week last year, 3265 barrels foreign, 108,884 baskets and 16,119 carriers domestic.

California oranges are in better request, with most of the old foreign fruit out of the way. They are quoted by the jobbers at \$4.50 to \$5 per box. Jamaica oranges are quoted at \$4.50 to \$5 for barrels, boxes \$2.50 to \$3.50. For the week the receipts of oranges were 299 boxes Jamaica and 883 barrels; same week a year ago, 827 boxes and 2597 barrels Jamaica; this year, 371 boxes California; last year 418 boxes.

California lemons are quoted by jobbers at 30 counts \$5 to \$5.50, 270 counts same as 300 counts, 300 counts \$4.50 to \$5, cases \$5 to \$6. Jamaica grape fruit is quoted at \$4.50 to \$6.50 per box.

Quinces are quoted at \$1.50 to \$2.50 per box, as to quality.

Cranberries continue very steady; barrels \$5 to \$7, crates \$1.75 to \$2.50, jobbing 50 cents to \$1 more. For the week the receipts of cranberries were 2284 barrels; same week last year, 3240 barrels.

Turkish figs are quoted at 10½ to 15 cents per pound, as to package and quality.

Chestnuts are quoted at \$3.50 to \$4.50 per bushel in a wholesale way, with jobbers selling for more.

How Was Coal Formed?

Some interesting and mysterious points in the history of coal formation are discussed by Dr. J. F. Hoffmann of Berlin, in the *Zell-Script für Angewandte Chemie*.

Authorities are agreed that coal is fossilized vegetation, the details of the process by which it came to be what it is are by no means clear.

Dr. Hoffmann believes that spontaneous combustion was an important factor.

According to a contributor to *Engineering* (London, Sept. 26), who discusses Dr. Hoffmann's paper, the popular view of the formation of coal may be summarized as follows: Certain plants or trees grow in marshes; they decay and sink; more plants grow on the first layer, and sink in their turn. The weighted-down residue decomposes through the influence of microbes, with the generation of methane and carbonic acid; and when the decomposed mass is afterwards exposed to high pressure, it becomes a coal.

Dr. Hoffmann raises some other points. He would distinguish three periods in the formation of coal. First, a period of microbe activity, a fermentation, so to say; then a period of decay, and, finally, the carbonization period proper. Mere heat does not change wood into coal, though we can finally obtain a substance like anthracite when we pass it into coal.

If you have stacked grain or hay, it will be well to make a thorough examination to note whether the top is in proper condition to turn the water off. This examination may save considerable loss, for there may be stacks that have settled in such a way that water is finding its way to their centres. All such should be retopped with long dry straw, canvas or other material.

Why not attend to those ugly gutters that are so far from the roof? This examination may save considerable loss, for there may be stacks that have settled in such a way that water is finding its way to their centres.

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MASSACHUSETTS PLOUGHMAN
NEW ENGLAND AND
JOURNAL OF AGRICULTURE

TELEPHONE NO. 3707 MAIN.

Chorus girls are still more popular at Yale than Mrs. Nation.

Now wouldn't you have liked to be a member of the Italian society?

Will the theatre-going public permit actor James O'Neil to cease claiming the world?

Mayor Jones of Toledo holds the opinion that the President grew up to the coal situation.

American jockeys will soon be able to find their way to the French frontier with their eyes closed.

Isn't it rather late in the day to be finding out that one of King Oscar's advisers may have been not altogether disinterested?

Astrologer Meyer's country is the whole world, both because he is concerned for its welfare and because it doesn't value his prophecies.

When Mr. Robert Green finally enters his chosen calling, it is safe to assume that few will come to scoff where the former pugilist is conducting divine service.

The latest defalcation, although it is a varnish company that suffers by it, looks very like the same old unvarnished story of infatuation and lack of funds.

Campaign excitement in the Sixth District reaches boiling point when one gentleman accuses another of distributing ping-pong sets as a means of influencing votes.

The world breathes a sigh of relief to know that the Castellane have come to an agreement with their art dealer and can now settle down to enjoy their pictures.

The newspaper correspondent, who has become governor of one of the Philippine provinces, ought to be able to keep pretty well informed as to what is going on in his province.

Although the point was not made quite so specifically, Mr. Joseph Lee apparently holds that one of the chief advantages of a sand heap for children to play with is that it makes them sandy.

If we should ever have a war with Germany, it is comforting to think that the enemy would probably never bombard Boston for fear of hitting the new German Museum in Cambridge.

The liveryman who recently married a Maine girl, and is now claimed by a Massachusetts woman, would probably appreciate the elder Well's remarks on matrimony, even without experience with "widders."

When a trolley car meets an automobile one naturally thinks of the familiar case of Greek meeting Greek. But the cases are not parallel. In the recent event, for example, the trolley can get the worst of it.

The late Frederic Tudor was responsible for pure air and proper heating in many a Boston building, both public and private; the fact alone should be worth more for the perpetuation of his memory than most monuments.

Rockland is temporarily famous for a wooden wedding the other evening which appears to have been characterized by an appropriately wooden kind of humor. As it used to say in the school reader: "There's nothing like fun, is there? We haven't any ourselves, but we do like it in others!"

The organization of a union among the New Haven messenger boys and the institution of a strike within three days thereafter, gives the lie direct to the popular theory that messenger boys are slower than others. Dare Devil Dick could hardly have acted with more promptness in seizing an opportunity to escape from a band of blood-thirsty redskins.

Paving the streets of Altman, Col., with stone taken from the waste dump of a neighboring gold mine was in a fair way, until the fact was discovered, to give that city a pavement worth \$20 in gold to the ton. For a short time Altman was the city of the emigrant's dream, and one could pick up gold in the streets.

Englishmen are willing to admit that it is not so much in the excellence of American machinery that success lies as in the out-turn obtained by that machinery. Nowhere in the world are machines forced to yield such out-turns as in the United States. Labor may be dear in America, but labor could well earn equal wages in England if it would give as great return in the day.

The inevitable connection between genius and necessity is again brought to light in the recent testimony of Walter Damrosch in the musical libel suit in New York City. Few of the audience who heard "The Magic Flute" last winter probably realized that Mozart wrote it to order for a bankrupt theatrical manager, who had already the scenery, but no opera to go with it.

The law puts little value on the comfort and pleasure of the Massachusetts man who has recently been suing to recover \$100 damages for the shooting of his trick cat. The cat, according to the plea of the former owner, "was a source of comfort and great pleasure to him"; but the unfeeling court, even while it established the position of a cat as property, reduced the compensation to a mere \$3.

Those who think the shoe trade has left Massachusetts mistake in their reckoning. According to the census of the total product of shoes in the United States amounting to \$261,028,580, Massachusetts is credited with a production of \$117,115,243 worth, New Hampshire \$23,405,558 worth, and Maine \$12,295,847 worth. The largest production in the West is noted in Ohio, Illinois, Missouri and Wisconsin.

Grain prices still hold strong, which works against a free outward movement of breadstuffs to Europe, but freights are very low, hence high prices may be sustained in this country. Cotton exports are large, aggregating since Sept. 1, 1,071,303 bales, as compared with 749,303 bales for the corresponding period a year ago. It is always the case that the agricultural products of this country are depended upon for the gold to pay our debts in Europe. Without the farmer there could be but little prosperity, even in this great republic.

The apple crop in New England seems to be a very uneven one. Again, there are many sections where immense crops of apples are raised this year, which, however, are of such a poor quality that there is in reality no profitable market for them. The apples needed for the export trade must be of high order, but even in our own city markets second-grade apples meet with but slow and unremunerative demand. The farmer who expects a profit from his apple orchard must give it the same attention he would the production of any other high-grade farm product.

Whatever the decision of the Coal Strike Commission now at work in Washington, we trust the point will be settled that any man who desires to work may have the opportunity, and whether he is union or non-union he shall be unmolested wherever he can find work to do. The union men now expect to force out of work again the non-union men who took the place of the strikers. The whole power of the State, legal and military, should be utilized in giving every man his freedom who wishes to sell his labor.

It is estimated that over one hundred steamships have been chartered in England to bring coal to this country, forty of which are coming to Boston. It is estimated that the cargoes will average about four thousand tons, or in excess of 150,000 tons to arrive during the month of November. This great influx of steamships is demoralizing the outward freight market. A charter is noted of a steamship from Boston with 175,000 bushels of grain, for Hamburg, at the lowest rate upon record.

Even lower rates are feared as the arrivals of the extra steamships increase. This state of affairs ought, however, to advance the value of grain in this country, as the cost of shipment to Europe is so slight.

Raising Beans to Dry.

The consumption of dried beans and peas in this country is enormous, but in spite of the millions of bushels annually used we import nearly every season hundreds of thousands of Scotch and English dried and soup beans. New York State dried beans have for years had the reputation of being the best, and New York choice marrows, medium and pea, were without equals. Just at present there are few available choice beans in market—that is, of last year's crop—and the prices quoted in the New York market indicate something of the nature of profits accruing to somebody. Thus choice State marrows are selling at \$2.85 and \$2.90 per bushel; choice red kidney beans at the same price. Of course there was a loss in these beans through shrinkage and damage by insects, but I have always found that it pays better to hold the dried beans until the end of the season. With proper storage facilities and a little care in looking after insects, it is possible to hold the beans indefinitely for high rates.

The varieties of beans which have a steady market demand in the cities are the marrow, medium, pea, red and white kidney, yellow eye, lack turtle soup and California lima beans. We import mostly Scotch green peas and English medium beans.

A great many bean growers use different varieties of beans which have received some local reputation, or which do well in their particular soil. This is all right if one has a market for them, or is raising them to sell as string or fresh green beans. Otherwise it is more to the purpose to accept the kind of beans which have a vogue in the market. With the right soil and seed and a due amount of care and intelligence in cultivating, a farmer should be able to raise marrow, medium or kidney beans on a wholesale scale at a satisfactory profit. The crop is one that keeps well, and I have held a crop over two seasons when the market was glutted, and finally obtained a price for them that made me realize a fair profit. Had I sold when the market was glutted, some speculator or storage house company would have made the profits which were due me. I should not recommend any one to enter this business unless the farming land is cheap and adapted to bean culture, and proper storage facilities were arranged beforehand.

Essentials of a Successful Farmer.

The object of this paper is in line of suggestion which may be an impetus to more thoughtful consideration of the various conditions surrounding the farmer rather than a solution in detail of every man's personal perplexity.

Believing that the farmer has the right, yes, bounden duty, to be a whole man, a broad man, symmetrical in development in as many respects as any man who possesses the unmeasured possibilities of life on God's green earth, it seems fitting to treat the subject under two heads, namely, General and Personal Needs.

General Needs: First, the Man—He needs personal qualifications for his business. The day has past when the boy who remains after the preacher, the lawyer, the doctor or the mechanic and business man have been picked out for the farm proved capable to call the tabs on those sent out to dwell in high places.

But where it did prove as intended, it also proved an insult thrown in the face of nature, which she resented by returning it with her compliments and a diploma which had for its perspective a panorama of slovenly practice, tumble-down houses, deserted farms, with desolation and failure written on all about, and close by the guide post pointing to the poorhouse.

He must have brains, judgment, business ability, thrift, independence, thought and action, studious habits, original in idea, with good executive ability, and a strong faith in the promise of the Almighty that seed time and harvest shall not fail, and a belief that the laborer is worthy of his hire.

A larger diversity of these qualifications is needed in the fundamental makeup of the farmer today than in the man of almost any other business. And wherever you find an eminently successful farmer, you will find these characteristics.

Second, the Other Half—He needs a good wife. Like the first farmer Adam, he may not always want her to pick apples, but he wants her just the same. Woman is a valuable helpmeet to all classes and in all kinds of business, but in none is she more intimately associated with the details of every day practice that make for success or failure than here, and next to the farmer himself she is the most important factor.

She should be capable, broad-minded,



HACKNEY MARES.

present verifies the fact, that the men and women who have climbed the highest round of the ladder of fame and achievement, as a rule, had their early training on the farm.

Hence, what a responsibility rests on the farmer of today and his good wife, as progenitors of efficient men and women, who may fill the ranks of workers as present incumbents vacate their positions.

Third, Status—He needs more confidence in his business. He must believe that he has just as good a business as any other man, and that if he devotes the same degree of tact, push and principle to it, his balance sheet (and he needs one as much as any business man) will show well beside the average of any ten or thousand he may pick for comparison.

Many a farmer would be surprised to know how few business men own their homes, even among those he almost envies, because of their favored circumstances. He can but expect others to think unfavorably of a business of which he himself speaks depreciatingly.

Fourth, Public Life—He needs to get into public life enough to know which way the needle points, and if there is a loadstone near to protect the compass or get his share of the load. He needs to remember the law-making bodies in order that they may remember him. It seems very inconsistent for a man to complain of the negligence way his interests are treated at the State or national capital, when all the interest he manifested is to forget the caucus, or to vote a ticket bearing names of men he cannot remember after election day, but for the local paper which his neighbor takes, and he borrows.

He needs to command respect, then it will be more quickly secured when necessary to demand it.

He should know if he wants the reciprocity bill, the ship subsidy bill, the electric road bill, the irrigation bill, or any other important measure that is presented, passed, or a change in the system of taxation, interstate commerce laws and other reform measures or not, and why.

It is not the purpose of this subject to elicit the pros and cons of any measure proposed, for its object is more of an abstract than argumentative nature, neither is it our office in this connection to state as conclusions what at most must be considered only opinions.

They are all important to the farmer, however, and need his most careful and studied attention, that he may know the bearing of all such State and national questions on his interest, and may be able to decide intelligently for or against.

It is not for the legislator to inform him, but that he should instruct the legislator what he wants if he would be abest of the times. But how shall he avoid being led if he is not prepared to lead.

A successful representative sounds his constituency to learn their desires, hence those prepared to state their position and wishes are said to get what they want. It is also the need, yes, duty of the farmer, to elect this kind of a man.

However, we can not compel a man in California to accept a measure, simply because we want it in New England, unless we can muster more power than he. And we need to accept the fact that often more time, expense and argument are devoted to deciding this same question of power than is given the merit of the measure.

Hence, we need to know our resources and the weakness of the opposition, that we may command our forces accordingly, lest we enter the fight prematurely and find our Waterloo.

It is not a legitimate need, in the sense of this subject, that we should tell the farmer how to decide important questions, but it is essential that he should be prepared to decide for himself and back it up with valid reasons.

It is generally conceded that the farmer pays a large share of the public taxes. If so, he needs to agitate the matter, and to show that the wrong is righted. The remedy is to be determined by the local symptoms of the disease. It is no matter of under-handed wire-pulling, but straight business, to look after these affairs through proper and public channels. It will lend much more prestige to our cause than to get behind the stove in the corner-grocery and kic.

Fifth, Transportation—It has become a question of need to the farmer that better means of transportation be secured, both for himself and his products. But we can't get it alone by demanding it. We can only provide it or encourage the investment of capital for its provision.

There is not now, and never has been except perhaps in war times, any tax that exacts or exceeds in burden the tax of

Many a farmer who does not raise \$1000 worth of products on his farm per year keeps a team, at an annual expense of \$200, besides the capital invested, to move that amount of products, and then adds to what produces he ships to city markets twenty-five per cent. of the selling price for railroad freights. So he pays twenty per cent. for transportation on what he uses on the farm, and forty-five per cent. on what goes to market. It may be suggested that this team is used for other farm operations. True, but you will usually find more teams than I have mentioned which must have credit for something, and a man with the team.

It is a fact that a two per cent. municipal tax rate is eliciting ten times the attention from the average taxpayer than the pay-

Eclipse & Fairbanks WINDMILLS

We have just overhauled an ECLIPSE WINDMILL that has not had a cent put out on it for repairs for 16 years!

IS THIS THE KIND OF MILL YOU WANT?

TANKS AND TOWERS

Estimates submitted on Complete Outfits.

CHARLES J. JACER CO.

174 High St., Boston, Mass.

The Standard Co. manufacture the best line of Bone Cutters made. We ship any size on trial in competition.

The line consists of eleven different sizes for hand and power, ranging in price from \$6.75 to \$195.

The principle of automatic feed, horizontal cylinders, knives cutting across the grain

will likely always have nothing. Do more head work and rest your feet. Get rid of jealousy; it is a moth that will eat up your own prosperity. We need to put on glasses if we can't see out of our own neighborhood.

Get in love with your work. Some farmers are too content, they need to wake up. Put on a neat business suit when you go to town, and not advertise as the slouch of the country. Stop choosing phantoms and follow something tangible. Get a library for your home and read the agricultural papers and leading magazines, and be happy, not only, because you are the cultivating class but the cultivated people as well.

Blossoms in your green hills alone.

A secret nook in a pleasant land.

One great by-industry of a beet-sugar factory is cattle feeding. Thousands of head of fine steers are fattened in the pens adjacent to the Rocky Ford factory on alfalfa, sorghum and the beet pulp after the sugar is extracted. Seven entire carloads of steers from this factory topped the Kansas City market in price for thirteen years.

Sixth, Educational—All of the preceding divisions have had more or less in common with this, as must also our consideration of personal needs, still it seems to lean heavily toward the side of general welfare, and must include much of a social nature. The farmer needs to give this more consideration, as its effects are too far-reaching to be ignored, even when he may consider it a family affair.

Many a boy has left the farm in disgust because his parents refused to favor needed simple changes by way of improvement, from wilful ignorance of value of such betterment in method, when, if they could have entered into an intelligent discussion of the subject and given some credit to his wakening judgment, he would have remained. Such ignorance is inexcusable.

We may not be in the older sections of our country new schools, but we need the hearty support of what we have, yet the crying need among American citizens is for boys and girls to fill the schools.

He is need of education. And these people are permitting greater injury against the American nation than all the "trusts" combined.

We need social opportunities, and the farmer needs to recognize this fact, and provide suitable means for proper satisfaction while his farm is in his control.

He needs a reliable daily paper as well as his farm journal, and the extension of rural mail delivery is making this everywhere possible.

He needs to bring up his sons and daughters so instructed that they will consistently and affectionately join hands and hearts in the full mission of men and women. Thus he will perpetuate the happy home, which is the living secret of all our progress as a nation, and the key to the supply of all our needs, and thus he will cheat the divorce court of its game and shame.

In future, more than ever, his success will depend on his skill, ability and integrity in pursuing his occupation. Hence, he needs to take more interest in our agricultural colleges and their management, and render them such support as they deserve in an effort to lay a better foundation for success by the agricultural classes.

And, withal, the whole nation of farmers needs a constructive policy, which will, we believe, follow so closely upon the course of educational progress that it will be inseparable. He should not strive to strangle his efforts for improvement all through life so that they shall die and be buried in the same casket. If his farm is growing better and his home more attractive every year, he will have no trouble to get a son to stay on the farm.

Next we consider his personal needs, or those which deal more especially with local or individual interests. We would speak of "trusts" first under this head, for the fear of them is much more personal than general.

We believe, on the whole, some men are trying to work the farmers and laboring men into needless furor over them. If unscrupulous, they are most likely to work their own destruction. The farmer needs to take some lessons from them to apply to his own personal affairs. If they plan some far-reaching scheme they don't advertise it in the press beforehand. We want to get on to our own business, and introduce into it some of the sagacity they exhibit.

If it pays to send a man to Asia to sell steel, why not the farmer's pool interests, and send a man to sell corn, or West to sell apples, or East to sell California fruits.

Why wait for buyers to come to us with

The Markets.

BOSTON LIVE STOCK MARKETS.

ARRIVALS OF LIVE STOCK AT WATERTOWN AND BRIGHTON.

For the week ending Nov. 5, 1902.

	Shots	and	Fat
Cattle Sheep	Stuarts	Bangs	Veals
THIS week... 2,988	12,422	95	24,483
LAST week... 5,063	15,006	95	25,621
ONE year ago 3,436	15,007	285	25,596

1812

Prices on Northern Cattle.

Beef—Per hundred pounds on total weight of hide, tallow and meat, extra, \$67.50@75.50; \$5.50@6.00, and \$4.50@5.00; third, \$4.00@4.50, a few choice single pairs, \$3.00@3.50; some of the poorest cattle, \$2.00@2.50. Western steers, 4@8c.

Steer Cows—Fair quality, \$30.00@48.00; choice, \$35.00@68.00.

Yearlings—Thin young cattle for farmers: Yearlings, \$12@25; two-year-olds, \$18@32; three-year-olds, \$28@48.

Sheep—Per pound, live weight, 24@32c; extra, 34@4c; sheep and lamb, per head, in lots, \$2.50@3.50.

Fat Hogs—Per pound, Western, 6@7c; live weight; shotless, wholesale—; retail, \$2.25@3.00; country dressed hogs, \$1@8c.

VEAL CALVES—At 7c@8c.

HIDES—Brighton—7c@8c per lb.; country lots, 6@7c.

CAVE SKINS—9c@11c; dairy skins, 40@60c.

TALLOW—Brighton, 4@6c per lb.; country lots, 5@7c.

PELTS—40@8c.

Cattle, Sheep, Cattle, Sheep.

Maine. At Brighton. J. S. Henry 12
Libby Bros. 35
P. A. Berry 36
Thompson & Hanson 19 170
Harris & Felt 36 460
John Chapman 6
M. G. Flanders 25
L. W. Wormell 6
Libby & Gould 24 300
Geo. Lowell 24 300

New Hampshire. At Watertown. J. S. Henry 22
At Brighton. 14
A. C. Foss 35 72
E. F. Addin 38
At Watertown. 19 20
Brook & Wood 27 30
W. F. Wallace 80 28

Vermont. At Waterford. 11
At Waterford. 20
A. T. Atwood 25 20
At N. E. D. M. & Wool Co. 20

Western. At Brighton. J. S. Henry 16
J. J. Buckley 19
F. P. Combs 200
J. H. Chapman 6
G. H. Hall 135
G. H. Spragg 13
L. F. French 28
At N. E. D. M. & Wool Co. 20

At Waterford. 20
A. T. Atwood 25 20
At N. E. D. M. & Wool Co. 20

Cheese. N. E. D. M. & Wool Co. 20

Live Stock Experts.

It would appear that there were more cattle of the best kind on the English market. Prices a week ago by cable at 12@14c. d. w., while latest range 11@14c. d. w., showing that best grades are higher and other grades 3c (d. w.) lower. A light export trade for the week, with only 116 cattle and 16 horses from this port.

Shipments and destinations—On steamer Armenian, for Liverpool, 384 cattle by Swift & Co., 290, by Morris Beef Company, 16 horses by E. Snow; on steamer Chicago, for London, 283 cattle by Morris Beef Company, 178 cattle and 57 Canada cattle by Swift & Co.

Horse Business.

The market in New England is a week ago.

The demand has improved and more inquiry for business horses. Truckmen are busy and must have horses of good quality. Truck horses at \$170@200, cattle at \$125@175, common horses at \$80@90. At Moses Colman & Sons a good week for all descriptions; sales from \$25@150 covered the general sales. A large call for saddlers and ponies at \$120@225. At Isbrough & Co.'s sale stable a good week's sale, handling some fine grade horses, together with some for general business, also common lots on sale; general range, \$35@250. At Cavanagh Bros.' stable sale a fair sale of heavy horses, \$150@250.

Union Yards, Watertown.

The market for beef cattle favorable to the buying interest. It was thought last week that cattle was selling at low figures, that is, the lower 200 lbs. were at 10c. D. F. Foss sold 2 cows for beef, of 1800 lbs. at 31c; 1 of 1340 lbs. at 31c; 2 cows, of 2100 lbs. at 32c; 2 of 1820 lbs. at 32c; with sales at 2@24c. J. A. Hathaway sold 40 steers, of 1200 lbs. at 7c; 30 do., of 1450 lbs. at 7c; 25 do., of 1425 lbs. at 7c; 20 do., of 1400 lbs. at 7c; 25 do., of 1425 lbs. at 7c; 20 do., of 1400 lbs. at 7c.

Milch Cows.

Very fair arrivals were yarded, some of which were choice in quality. Sales of 20 choice cows, by W. Cullen, \$60 a head; 5 cows at \$50 a head, while cows that arrived would not bring over \$50.

Fat Hogs.

The market exactly as last week, with Western at 6@7c. l. w. Local hogs, \$1@8c. d. w.

Sheep Houses.

Market easier by 1c per lb. and the demand quite moderate. The best arrivals were with the Westerners. Canadian came nearly up to Westerners.

Price of lambs at \$2.00@2.25. At N. E. D. M. & Wool Co. 16@18c. 18 lbs. and lambs, of 3200 lbs. at 4c; do., of 3700 lbs. at 4c; 22 sheep, of 3000 lbs. at 2c; 71 do., of 1600 lbs. at 2c. G. W. Hall sold 91 choice lambs, of 500 lbs. at 5c; 46 do., of 330 lbs. at 5c.

Veal Calves.

No material change in price; 7c obtained where the quality would permit; paying that price, down to a fair call. N. W. Woodward, 15 calves, 2030 lbs. at 7c; 28 lambs, of 1200 lbs. at 4c; do., of 3700 lbs. at 4c; 22 sheep, of 3000 lbs. at 2c; 71 do., of 1600 lbs. at 2c. G. W. Hall sold calves at 6c; 4c; 3c.

Live Poultry.

Best price paid at yards, 10c in crates; mixed 8c@9c per doz. Nice pullets selling at 50c@60c.

Doves of Venal Calves.

Libby Bros. 30, P. A. Berry, 40, Thompson & Hanson, 55, Harris & Fellows, 58; E. Chapman, 51; M. D. Holt, 30; F. W. Wormell, 6; Libby & Gould, 23; George Lowell, 30.

New Hampshire—A. C. Foss, 16; A. F. Jones & Co., 13; Brock & Wood, 50; Fred Savage, 55; N. J. Jenne, 20; W. E. Haydon, 16; G. W. Hall, 6; G. H. Spragg, 13; B. P. & P. Co., 33; Roeder & Foss, 25; W. F. Ricker, 200; M. G. Flanders, 25; F. Atwood, 25; E. F. Ricker & Co., 205; J. S. Henry, 21.

Massachusetts—J. S. Henry, 16; W. A. Barber, 25; O. H. Peabody, 3; P. H. Gilmore, 23; Scattering, 150; R. Conners, 17; C. D. Lewis, 4; D. A. Walker, 26; J. P. Day, 20; M. F. Austin, 22.

Righton, Tuesday and Wednesday.

Stock—At 12c@14c. 1000 cattle, 3000 lbs. 227 calves, 120 horses. Maine, 17 cattle 900 sheep and lambs, 334 calves, 204 hogs. New Hampshire, 35 cattle, 72 sheep, 50 hogs, 16 calves. Vermont, 12 cattle, 1 hog, 21 calves. Rhode Island 20@22 cattle, 8 sheep. Connecticut, 8 cattle.

Tuesday—The arrivals of the week were 136 cattle from all the New England States and the West. The movement in cattle for beef was somewhat slow and weak in price. Butchers were slow in the West. It was not until nearly the 1st of November that the Jewish market, for a time, that common to fair grades of cattle would be firmer, but such was not the case. J. W. Ellsworth, 14 cows, of 12,240 lbs. 22 bulls, of 2500 lbs. at 2c. J. P. Day, 6 cattle, 3000 lbs. at 4c. Libby Bros. had in and sold 1 pair of oxen from John Ward's farm of Thorndike, Me., of medium grade, of 3000 lbs. at 5c.

Milch Cows.

Just a fair trade, no excitement at the yards. All sorts and qualities were on sale at a wide

range in prices as quoted. The better grades were selling shortly after their arrival at \$30@60. F. W. Wormell sold 3 milch cows, extra quality, at \$45 each. Libby Bros. sold on commission, some at \$60, \$65 and \$60, being choice in quality; 10 cows at \$40@45, down to \$30.

Cattle Sheep and Fat Veal.

Market value unchanged. The supply about the same as last week, near to 2000 head. F. W. Wormell sold calves, of 110 lbs. at 6c. E. Chapman sold 105-lb calves at 6c, with sales at 6c, 6c, up to 7c.

Late Arrivals.

Wednesday—Less milch cows on the market and light runs from Maine. The better grades of new milch cows found ready disposals early in the day, and sales were fairly good for medium and choice. Some 12@14c. a few choice single pairs, \$30@35. Some of the poorest grades, 4@6c. Chapman sold 105-lb calves at 6c, with sales at 6c, 6c, up to 7c.

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Our Domes.

The Workbox.

LADIES' BLOUSE SWEATER.
Use six laps of Lion brand Spanish yarn, $1\frac{1}{2}$ yards three-quarter inch satin ribbon, color of yarn, hooks and eyes on tape for front, two dozen small buttons, one pair of bone needles, No. 5, 1 pair of steel needles, No. 10.

With bone needles, cast on 116 stitches (* 2 plain, purl 2), 7 times, 6 plain, purl 2 (3 plain, purl 2), twice, 6 plain, purl 2 (3 plain, purl 2), twice, 6 plain, purl 2 (3 plain, purl 2), twice, 6 plain, purl 2, 2 plain to the end.

2d row—Reverse order of previous row, that is, purl 2, plain 2, etc. This is done because it has a right and wrong side.

Knit as above for 11 rows. On twelfth row remove first 3 of the 6 stitches to an extra needle, then knit second 3, put first 3 back on left-hand needle and knit them, then purl 2, plain, purl 2, 3 plain, purl 2, twice, 6 plain, purl 2, 2 plain to the end.

3d row—Reverse order of previous row, that is, purl 2, plain 2, etc. This is done because it has a right and wrong side.

Knit as above for 11 rows. On twelfth row remove first 3 of the 6 stitches to an extra needle, then knit second 3, put first 3 back on left-hand needle and knit them, then purl 2, plain, purl 2, 3 plain, purl 2, twice, 6 plain, purl 2, 2 plain to the end.

Knit this way, making a plait on every twelfth row, until jacket measures 14 inches. Now (knit 2 plain, purl 2) 18 times, (36 stitches) 3 plain, purl 2, making 41 stitches for shoulder. Take off carefully on to a third needle these 41 stitches, leaving 41 stitches at the other end. These are for the shoulders. Bind off the intervening 34 stitches, knit the 41 stitches left on the needle which you are working forward and back 5 times (or 10 rows in all), as follows: Purl 2, 3 plain, purl 2, 2 plain, purl 2, and so on to the end.

Then cast on toward the front 60 stitches (purl 2, 3 plain) twice, purl 2, 6 plain, (purl 2, 3 plain) twice, purl 2, 6 plain (purl 2, 3 plain) 4 times, purl 2, 2 plain to the end. Knit as above for 11 rows, on 12th row (**) remove first 3 of 6 stitches to an extra needle, then knit second 3, put first 3 back on left needle and knit them (purl 2, 3 plain) twice, purl 2 and return to (**); continue to end of row. There will be 3 plait on each side of front. Knit the same for six inches.

Cast on 15 stitches towards back for under-arm piece; knit 9 inches in this way. Then knit 30 stitches of under-arm seam, turn and knit towards front without removing the needle—next knit to within 37 stitches of under-arm and turn; knit back and forth 4 times more, each time leaving 2 stitches on other needle. This will make 45 stitches on under-arm needle. Knit back to under-arm seam, then commence at under-arm and knit and purl 9, and purl 2 together 13 times, knit and purl 3 together 14 times, knit and purl 4 together 12 times; 2, 3 and 4 together means to take these number of stitches upon the needle and knit them off together. Bind off all these stitches; this gathers fullness in front.

Make other side of front to correspond with this, beginning with the 10 rows on shoulder and casting on 69 stitches for front as before. Pick up all the stitches on front and back on one of the steel needles, first sewing up under-arm seam, then 2 plain, purl 2 for a depth of $\frac{1}{2}$ inches; this forms belt.

Sleeve—Cast on steel needles 78 stitches, knit 2 plain, purl 2 for 5 inches. Change to bone needles (2 plain, purl 2) twice, (3 plain, purl 2) twice, 6 plain, (purl 2, 3 plain, purl 2) twice, 6 plain, (purl 2, 3 plain) twice, purl 2, 6 plain, (purl 2, 3 plain), twice, (purl 2, 2 plain) twice; knit as above for 11 rows, on twelfth row make plait as in jacket. Continue this until it measures 33 inches.

Increase 1 stitch each end of needles for 8 rows, knit 8 rows without increasing. Repeat 3 times, then knit 2 inches without widening, then widen 12 stitches, then knit 2 inches and widen 12 stitches, then knit without widening until sleeve is desired length; bind off loosely.

Collar—Cast on steel needles 150 stitches, 2 plain, purl 2 until collar is $5\frac{1}{2}$ inches deep. Bind off loosely. Gather fullness of sweater in front at neck and sew on collar.

EVA M. NILES.

Practical Topics.

Window seats and boxes for the nursery or any room where the children stay and play are useful in many ways. If there is even a slight jog to the window they are easily fitted in; and boarded up, the top fitted on a hinge so that it may be raised, an excellent receptacle for play-room litter is provided.

If liked, the space beneath one seat may have two shelves for the children's books and magazines, in case little curtains stretched on a wire or slender rod should fall from both seats. These should match the removable cushions of the seats, and should be of denim, chintz or other stout and washable material. Have the windows thoroughly protected with window strips, for the children will sit in these seats for hours at a time, interested in outdoor sights. Not long more quickly induces serious colds than lounging in a draughty window. On the other hand, if the window is properly stripped, the seat boxes will prove added protection from draughts that are sure to come in around windows in our poorly built houses.

When glass dishes are used for flowers, it is useful to have the open wire coverings that come for the purpose, through which the stems may be thrust. In this way a few flowers may be used to excellent advantage. These coverings fit long narrow, as well as circular dishes. The mirror mats are most desirable, too, and two or three or more in different sizes and shapes permit much variety in table decorations. It is a good plan, too, to have a set of four individual silver candlesticks, with a round of shades. The open-work silver shades with which a glazed color piece is used are the most economical in the end. The color pieces are very cheap, and once a set in pink, white, red, green and yellow is acquired, a wide range in the table scheme is possible. As fresh candles must always be bought, it is easy to get them of the desired color. The detached candlesticks are also better value than the branching ones, when economy is to be considered and frequent entertaining is undertaken, as the arrangement of the former can be widely varied.

A recent addition to the list of savory salts is onion salt, which is now put up in

shake cans or bottles for flavoring use.

These balls make a pretty company garnish for soup to be used instead of plain rice. Mash or stir down with a fork a cupful of cold boiled rice, and mix with a batter made of one whole egg beaten, a tablespoonful of flour, with a seasoning of salt and a pinch of cayenne pepper. Stir, smooth and powdered sugar is added. These in melting spread over the beans in a thin coating, which holds the aroma, and contributes a caramel flavor that is delicious and distinctive.—Harper's Bazaar.

The delicious flavor which all travelers in France discover in the coffee of that country is got, it is said, by the addition of a little butter and sugar during the roasting process. To every three pounds of roasting berries a tablespoonful each of butter and powdered sugar is added. These in melting spread over the beans in a thin coating, which holds the aroma, and contributes a caramel flavor that is delicious and distinctive.—Harper's Bazaar.

Treatment of Rugs.

The manager of a Chicago carpet department, whose knowledge brings him an annual income of \$10,000, advised the following treatment for valuable rugs: Lay them wrong side up on the grass, beat with a furniture beater, reverse and sweep carefully, a soft brush being the preference, or a good carpet-sweeper. A little airing outside of the sun's rays is good occasionally, when they may be carried in the house. The average American housewife wears out her rug by continued sweeping and beating. The plan of putting them upon a line every two or three weeks, or even once a month, and then having them whipped, is not to be commended if the rugs are of any value. When a rug is to be thoroughly cleaned, it should be sent where the work is properly done, or else washed at home.

A machine is now in use which loosens the dust and removes it by means of a strong current of air. This is effective and not hard on the rug. When the surface becomes soiled it can be washed with no fear of injuring the colors, since the majority of Oriental rugs are washed repeatedly before reaching this country, and the dyes used are thereby mellowed and enriched. The best method of washing a large rug is to stretch and tack it upon a clean floor, then scour it well with soapsuds. After the scouring it must be thoroughly rinsed, to remove all trace of the animal matter in the soap, after which it should not be removed until it is perfectly dried. Then it will not shrink and will lie perfectly flat upon the floor. A small rug may be tacked upon the side of the house or barn, soored upon a floor and then rinsed with a hose. —Good Housekeeping.

Fast Eating on the Increase.

Eating rapidly, according to the testimony of a specialist in the kind of trouble caused by that breach of good table manners, is very much commoner than it used to be.

"I was remonstrating with a friend the other day about the manner in which he was gobbling his food," said this specialist in digestion. "He told me that he had deliberately learned to eat rapidly because it was necessary in self defense. He said that he had clung to his own habit of eating slowly as long as possible, but he had eventually to give it up because he was always the last person to finish at dinner. When he was half way through the meal everybody else was waiting on him. So he tried to learn how to eat as rapidly as the other persons he knew.

"The number of evils that are to be avoided by slow eating is so great that I don't believe any sane person who knew of them would eat quickly. Half the troubles that people complain of to me are due to the habit.

"One of the things which ought to persuade most persons to eat slowly is the fact that this practice will reduce flesh, or at all events it will prevent a person from becoming abnormally stout if there are no other flesh-pampering habits, such as drinking at meals or eating sweets in large quantities.

"The person who eats slowly never eats too much. If the food be carefully chewed half the amount one usually eats in a hurry will suffice. If the food is eaten slowly, it satisfies, whereas large lumps of rapidly consumed food do not gratify the appetite, but stimulate a craving for more food.

"Another merit that comes from slow eating is the effect on the complexion. For one who eats rapidly a clear skin is out of the question. A mucky, mottled color is the result of eating in the rapid way that most persons do nowadays. If a person is found who does eat rapidly and has at the same time a clear skin, it will be found that this person usually eats so little that there is no possibility of indigestion.

"There are two other advantages of slow eating which ought to appeal to everybody's vanity. I have not mentioned more serious discomforts, such as confirmed indigestion, which is nearly always cured by this habit and no other. But to keep from getting too fat and to insure a clear complexion seems to me a sufficient reward for slow eating to make it worth while.

"Fast eating comes in a large measure from nervousness. The average man who eats in a hurry does not because he is pressed for time, but because he has something else on his mind which seems to him more important. The American attitude of mind has come to be that it is desirable to end the trouble of eating as soon as possible and get back to pleasure or business.

"But it is a mistake to suppose that Americans are the only fast eaters. They compare very favorably with the Germans.

All that one hears of German slowness and deliberation seems to disappear at the table. The Germans eat more rapidly than Americans, and, generally speaking, they eat more, which is a good reason why they should try to chew their food. The English, as a rule, eat more slowly than Americans. But as yet we are the only nation that advertises a "quick lunch." Others may say that lunch is good or cheap. But only here does one boast that it is quick.—New York Sun.

Domestic Hints.

TRIP A LA POULETTE WITH MUSHROOMS.

Select previously well-cleaned and very fresh tripes, blanch it for ten minutes, and when drained cool it off, cut it into large pieces and put them into a stock pot with water, salt, allspice, carrots, onion with two cloves and a bunch of parsley garnished with thyme and bay leaf; boil very gently on a slow fire for eight hours, keeping the cover on close, then put the tripes aside to cool in its own water. Drain and wipe it off, and cut it into two-inch by one-half inch pieces, then fry them in butter without attaining a color; drain off the butter, cover the tripes with a layer of flour, and just when ready to serve incorporate into it a piece of fine butter, some chopped parsley and minced mushrooms and a little lemon juice.

ROASTED STUFFED CHICKEN.

Boil till about half cooked enough onions to fill the chickens to be cooked, and drain; mash them a little, moisten with milk, season with salt and white pepper and a chopped celery stalk or two to them. Fill the chickens, truss them, and boil till tender. Let the water in which they boil cook away slowly till only a half pint or so remains. Add to this half a pint of rich cream, season as needed with pepper and salt, thicken and serve.—The Epicure.

FRIED COD STEAKS.

Trim the fish and flatten it, cover each with a coating of oil, in which add lemon juice, a little onion juice, cayenne pepper and salt. At least an hour the fish should stay in this dressing, then lightly drained, dipped in egg, then in crumbs and fried. Or if it is preferred to have it broiled, drain it from the oil and put right on the

gridiron over a hot fire.

CHOCOLATE LAYER CAKE.

Half a cup of butter, two cups of sugar, three whole eggs, or the whites of six, one cup of milk, three cups of flour, two even teaspoonsful of cream or tartar, and one teaspoonful of soda. Melt butter and cream to a cream, add the eggs beaten together, sift in the flour, add the soda to the milk. Bake in four or five layers, with the chocolate filling: Take two unbroken whites of eggs and a cup and a half of powdered sugar and beat them together. Stir over the fire until smooth and glossy two ounces of Baker's unsweetened chocolate grated, with half a cup of powdered sugar and four tablespoonsful of boiling water, remove from the fire and stir white into the eggs and sugar, and when it is cool spread the top and sides, and set the cake in the oven for a moment to dry the top.

EGG TIMBALE.

Boil six eggs without separating; add to them one-half cup of water, a one-half cupful of salted salt, a salted spoonful of pepper, a dash of custard cups; pour the mixture stand in a pan of boiling water, and cook in the oven slowly until timbales are set in the center. Turn into a heated dish and pour around cream sauce.

HONEY CAKE (A NORWEGIAN RECIPE).

Two pounds of strained honey, three-quarters of a pound of light brown sugar, three-quarters of an ounce of bicarbonate of potash, powdered very fine and dissolved in a little water, one cup of cream, half a cup of melted butter, ginger, cloves and pepper to taste; stir this all well together, add it to as much flour as will make it like a thick mush, set it away until the next day, then turn it into a well-greased cake mould and bake about three-quarters of an hour.

HINTS to Housekeepers.

Onion soup is often liked by people who disdain the savory herb in any other form. There is no doubt of the wholesomeness of the onion, and those who have never tried the soup are recommended to use this celebrated recipe of the elder Dumaine. Take for three pints of soup, four onions, take eight cloves, white onions, and three small turnips, cut them in two, two spoonfuls of butter. Pour in two quarts of water, season with pepper and salt, and boil until the onions are quite soft. Beat the yolks of three eggs, mix with the soup, and pour the mixture over fingers slices of toasted bread. Milk may be used instead of water in this soup.

Do not allow children to eat fruit skins. They are frequently filled with microbes which find in the stomach conditions favorable to their development. The downy bloom of the peach is especially liable to contain these microbes. All fruit should be washed before going to the table.

Here is a delicious salad from England: About four ounces of soft cheese—best dairy cheese is an excellent substitute—and mix to a paste with an ounce of butter, a tablespoonful of salad oil and a teaspoonful of French mustard. Cut ripe tomatoes in half, scoop out the seeds, mix with the cheese and the mustard, and add a few drops of vinegar. Sprinkle the top with minced chives.

Hemstitched note paper is a novelty, and bids fair to become popular. It is pretty and dainty in the pale shades now so much in vogue.

Sets containing half a dozen sticks are for the use of the very young.

To keep a spoon in position when desirous of dropping medicine into it and needing both hands to hold both cork and place the handle between the leaves of a closed book lying upon a table.

Do not stuff cobwebs into a cut unless you want to form, as cobwebs are rich in bacteria which produce pus. Instead, stop bleeding by the use of water as hot as you can bear it, and healing will take place in half the time.

Cannon alum melted in an iron spoon over hot coals forms a strong cement for joining glass and metals together. It is a good thing for holding glass lamps to their stands.

The rule seems to be, this season, that a gown will not be a success unless it is made to fit at all. Among the new skirts is one that meets an extremely popular favor, fitting closely around the figure above the knees, and below there are three square flounces, graduated in size, and mostly finished with an edge of white or black. These are made up in camel's hair cloths or velveteens and trimmed with bands of plain cloth on which are applied pretty motifs or small passementerie ornaments of black or white.

Rice can be used several ways for puddings and is wholesome and palatable. Here is a good one that is easily made: Take six ounces of whole rice, and when sufficiently boiled, stir in a tablespoonful of oil and a half cupful of pared fine; when that is absorbed, add to it one egg, add two ounces of brown sugar. Boil this together three-quarters of an hour.

Fashion Notes.

* White and black combinations in millinery will again be popular for the two coming seasons.

Black and white fancy satins, velvet and velour weaves; black and white lace, feathers, guipure; black velvet ribbon, overlaid with white silk passementerie; black velvet loops lined with white satin; large or small dress or hat bows, etc.

French felt or velvet garnished with black and white tulle, doves' wings, white birds with black wing tips and breast plumage, and white velvet poppies or water lilies with black or yellow velvet.

It is the season for velvets, velours, corduroys, valentines, and similar fabrics of every sort, and the dry-goods merchants are calling attention to a new fast-black velvet, manufactured, it is claimed, by a process, whereby the color will not rub off on the most delicate gloves or light linings. The goods are designed for costumes, jackets, and suits and dresses for little girls and boys.

* Wool etamines in monochromes, and in Tarten effects woven in alternating light and heavy blocks are brought out in new color combinations, and mohairs, brillianties, cashmere, and silk-and-wool mixtures are intended for fall and early winter tailor and semi-dress gowns. Bridesmaids' dresses of pale blue cloth are made with white satin garnitures, embroidered vests, and picture hats of chestnut-brown velvet trimmed with ostrich plumes and Flemish lace.

* White wool hats are very prominent among the samples of fall and winter millinery. There are two styles, one of very fine velvet French felt, the other of white camel's hair, to correspond with suits of the same rough surface, and with silk hats.

* Among the designs for fall and winter bridal gowns, there are many in princess form. For short, rather stout women, this style of dress is a boon; for the former, wrapper-like effect is now wholly eliminated. Even when a costume made with a skirt and jacket is perfect of its kind, dividing the skirt and coat has a tendency to shorten and broaden the effect. No inexperienced dressmaker, however, can possibly make a success of a gown of this kind. All the pretty accessories are added to these gowns—the fancy blouse fronts, boleros, picturesque sleeves, collars, etc.

* The sashes and vicuñas are particularly a trifle this season, and some becoming tailors suits have been made from them.

* Fancy medallions, lattice and scroll designs in open-work mohair and other silk and wool brocades, cheviot, velvet, silk, netting and cordings—all in new applique effects, are used as garniture for stylized cloth and silk gowns. This form of decoration is more stylish than stitching or rows of braid, although these simple styles of trimming are still in high favor. The medallions and star-shaped forms of decoration appeal more to those who are fond of striking color effects, and it is at this time of year that brilliant tones are most worn.

* The use of white satin, fur, gold braid, laces and Russian guipure medallions is again a feature

of cloths and velvet gowns, and handsome coats of various kinds for afternoon calls, receptions, matinees.

* Tailor-made costumes of military blue tunic and breeches, with blouse bodices trimmed with ruffles of gold and silver, and blue enamel. Suits in silver-blue faced cloth are silk-stitched and finished with slot seams, or again they have mink-trimmed Louis XV. jacket with vests of Persian bro

LIVER ILLS.

DR. RADWAY & CO., New York:
Dear Sirs—I have been sick for nearly two years, and have been doctoring with some of the most expert doctors of the United States. I have been bathing in and drinking hot water at the Hot Springs, Ark., but it seemed everything failed to do me good. After I saw your advertisement I thought I would try your pills, and have used nearly two boxes; been taking two at bedtime and one after breakfast, and they have done me more good than anything else I have used. My trouble has been with the liver. My skin and eyes were all yellow; I had sleepy, drowsy feelings; it's like a drunken man; pain right above the liver, as if it were on top of the stomach. My bowels were very constipated, and tongue was sort of the time appetite fair, but food would not digest, set settle heavy on my stomach, and some few mouthfuls of food came up again. I could only eat light food that digests easily. Please send "Book of Advice."

Respectfully,
BEN ZAUGG, Hot Springs, Ark.

Dadway's Pills

Price 25c a box. Sold by Druggists or sent by Mail.
Send to DR. RADWAY & CO., 55 Elm Street, New York, for "Book of Advice."

poetry.

FAREWELL TO CATAUMET.

Farewell, farewell, Cataumet dear,
From out thy lovely scenes I part;
And oh, I fain would shed the tear
So much thy leave I take to heart.
This boding soul that sought release
From worldly cares and aching strife,
Hath found in thee a perfect peace
Which only heaven could bring to life.

Over fields so richly dressed in green
And through each wood, shady dell,
The hand of Nature can be seen
To wake the bard's poetic spell.
Perched high upon the full-grown trees
The birds their carols sweetly sing;
And from the cool, refreshing breeze
The boughs majestically swing.

The squirrel with almost lightning fleet
Doth scamper to its little nest;
For at the sound of human feet
The fear of death looms in its breast.
And when the dark'ning shades of night
Steal gently o'er the summer sky,
The owl appears, and thinks it right
To offer up its solemn cry.

Both Pagan * and myself we roam
To view the old-time rustic places,
And watch the farmers coming home
With honest-looking sunburnt faces.
Their simple speech and manners teach
That rural life is worth the living;
They seem to practice what they preach,
And like our Saviour, most forgiving.

Such scenes like these the heart doth crave,
When Faith and Virtue are behind it;
It makes a Godly man more brave
And helps him keep his place and mind it.
New life creates within his being
And lifts him to a purer sphere;
When drinking in the good he's seeing
And acting it in truth sincere.

GEORGE MCKENZIE.
A dog whom the writer was greatly attached to.

ONLY A WOMAN'S HAIR.

only a woman's hair—a common sight—
Yet still with streaming eyes I gaze upon it,
My breakfast lies untasted while I write
This sonnet.

only a woman's hair. The time that was,
The years that were, the gay and gladsons
days
Of my past youth rise up before me as
I gaze.

only a woman's hair.
I would have loved it dearly; who can doubt it?
But as it is, I think there's something queer
About it.

only a woman's hair. It seems a sin
The plain, the bare, unvarnished truth to utter—
I really cannot, cannot like it in
The butter.

—J. Oliver Curwood, in Lippincott's Magazine.

A WINTER'S NIGHT.

High-ho! for a winter's night,
How do the stars look to sleep?
They shiver not when the keen frosts bite—
No winters make them weep.

They hear no moan of the weary earth,
There—on a dreamless bed,
The white I bend o'er a flameless hearth
And munched at a crust of bread.

Far from the wrath and wrongs of life,
"Neath the wings o' the dark they rest,
While I am lost in the raging strife,
With the red wounds on my breast.

For a dead man's neither rich nor poor,
Under the light and rain;
The blast and the blafit at his door
Knock and knock in vain.

And the gods grant, or the gods deny
Gifts where the homeless roam,
But he reeks not there if the daisies die,
Or break his grave like foam.

But—better a crust this winter night,
From the wealth o' the world apart,
With the memory bright of your eyes of light
And the life of your lips, sweetheart.

—ATLANTA CONSTITUTION.

TWO WOMEN.

I think the white rose is so red because
Love burns into it every girl thought,
And gained it in the beauty of the stars;
I take a little chance for his heart;
But, apart from every painted thing,
Unkissed to color by voluptuous suns,
I spin the violet cloister of the spring
Among a white-robed sisterhood of nuns.

think the red rose is so red because
Love burned it from desire and the whole
intensity and fire of the stars,
And in its crimson bosom had his soul;
I, drunk with all the passion of his themes,
And glowing with the warmth of countless
springs,

join the mad procession of his dreams,
Wanton in the world of blooming things.
think, somehow, that if the chance befall
Which urged a choice among his flower host,
That Love himself would find it hard to tell
Which one, betwixt these two, he loved the
most!

—Ella Bentley, in New Orleans Times-Democrat.

... To keep one's eyes upon the stars
And strive for Heaven is sweet,
But not at risk of tumbling in
The mudhole at your feet.

A baby in Kalamazoo remarked distinctly: "Goo-goo,"
"Twas explained by his ma,
And likewise by his pa.
That he meant to say: "How do you do?"—Judge.

... Now to the winds with polities,
To greater measures bow;
The strongest "sphere of influence"
Must be the football now.

—N. Y. Times.

Miscellaneous.

1. House on the Uplands.

The great Tantremer Marsh is a noble expanse of diked land at the head of the Bay of Fundy. One hundred and sixty years ago it was an important section of the debatable ground between the French and English powers in North America. Today it is famous for its harvests of rich grass, for the wild fowl that flock in with the high tides of spring and autumn and for the birds which make it from end to end. One used to hear also of the tale of the House on the Uplands, though its place has failed to ruin now. It was my fortune to witness the development of that strange story. The house was unusual and not a little sad. It took place during a holiday month spent on the borders of Tantremer. Looking back now, the events seem to follow from a certain afternoon in August.

I was riding my wheel along the road skirting the wide marsh which stretched away on the left until it merged in a line of rolling hills. To the right was the gradual ascent of the uplands, with a house and there a farmhouse or a clump of spruce trees. In the distance far away the dark waters of Fundy brimmed in the blue Nova Scotia and the forest horizon.

At a curve in the road I turned back and waved my hand. The old man was still standing at his open gate in the gathering dusk, gazing after me.

The village was only a few miles away, and I soon arrived there. My stopping place was a small hotel which overlooked the head of the bay. As I sat outside smoking in the cool of the evening the landlord joined me for the customary chat.

"Well," he began, "how far did you get today?"

I told him, and then related my experience, touching lightly on the old man's story.

"So he stopped you, did he?" said the landlord, with a chuckle, "and told you 'brother James'?"

"Well, you ain't the first, not 'bout a thousand, that old Jarge Montague has told the same story to."

"What do you mean?" I asked.

"This is the how it was," answered the landlord, titting his chair into a more comfortable position, "but I can't tell you for your kindness, I suppose, to tell you for your kindness."

"It's my brother," he replied. "My brother James. Well, I've been looking for him these many years, but this summer I know he's coming back, and we'll go off to England together—to England—home—home—and again he shot that wistful glance at his horse."

"Sir," said he, "have you passed any one lately, coming in this direction? A tall man, it would have been, on horseback?"

"No," I answered, "the road seemed deserted this afternoon."

Seeing my amazed look, the speaker proceeded to explain.

"He come out to Halifax in a Canard steamer; she was called the *Scout*. I know—one of the big paddle boats that used to run in the old days."

"It's my brother," he repeated. "My brother James. I've been looking for him these many years, but this summer I know he's coming back, and we'll go off to England together—to England—home—home—and again he shot that wistful glance at my face."

"To England!" I exclaimed. "That's a far cry from Tantremer! But I am hot and thirsty. Can you give me a drink of water? Then, if you will, you can tell me about your brother. I am going to the village, and perhaps may see him there."

The old man's face lighted up eagerly. He opened the gate, which sagged heavily back on its hinges.

"I take this right kind of you, sir," he said. "Come up to the house and accept my hospitality."

"I often look at me wistfully, sighing as if much disappointed."

"Whom are you expecting?" I ventured—a little curiously, but by his aspect.

"It's my brother," he replied. "My brother James. I've been looking for him these many years, but this summer I know he's coming back, and we'll go off to England together—to England—home—home—and again he shot that wistful glance at his horse."

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"I am afraid," said he, "that James' horse may shy at this time of year if it comes up to the house and passes it. I hope you won't mind putting it to one side."

"Certainly not," I replied. "I'll put it here around the corner."

Within the house the rooms were large, and as we entered one of them from the wide hallway that every flower and shrub showed signs of careful tending; the garden was small, but beautifully laid out. A nearer view of the house, however, explained the unpleasant impression which it had produced upon me. The place was empty. The windows, curtailedless in the upper story, stared vacantly out over the marsh and the distant bay; the bravery of fresh paint was only heightened by desolation of the place. For a moment I stood there, thinking. Then I saw the Curlew. She was round and safe an' near reached the head of the bay, when a big storm a' high tide got her, an' she was wrecked ha' a mile below here, an' every soul drowned. Old Jarge—he was young Jarge then—had come into the village with a couple of horses for himself an' his brother to ride out to the house. The first he saw of his brother was the Curlew. 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The Horse.

Live Stock Notes.

The expert judge who judged the swine at the Central Canada Exhibition said that Canadian breeders are now developing a more uniform type of hog than are the British breeders. The standard hog in Canada is now a long, deep animal. In Great Britain there seems to be no uniform type, but each breeder has a type of his own, which is large or small as he fancies, and the prizes will be awarded at the English exhibitions according to the preference of the judge who examines them. Although he has in years past bought many hogs in England and imported them for breeding purposes, he does not intend to do so much more, though he may get a boar from there occasionally. He showed his faith in Canadian-bred hogs by buying nine Yorkshire pigs from one of the exhibitors. Six of them were prize winners, and four of them won first prizes.

Not the least of the values of the sheep on a farm is that of cleaning up the weeds on a stubble field after the small grains. They will eat nearly every variety that starts there so closely as to prevent their seedling, and practically to prevent their starting another season. There are some who claim that the same results can be obtained by plowing under the weeds to enrich the soil, but this is not the case for two reasons. If the weeds are allowed to reach a stage of growth where they have much value as a green manure, they will probably have ripened some seeds, while if they are plowed under before they have grown enough to ripen seeds they have but little fertilizing value, and the process must be repeated very often. But if the sheep are turned in them they change these weeds that they eat to a more valuable fertilizer than we should expect the green weeds to be, as they add to what they obtain from them all that they get from their grain feed, which we should not omit when they were feeding on weeds, although we know that some of those weeds eaten by sheep, and rejected by many other animals, are rich in nutritious matter, and more so in protein than many of our grasses. Then they reach where the plow does not, into the borders of the field, the hedgerows and other places where the grass indicates that the soil is very rich, and they transfer what they find there to the less fertile parts of the field. How many have taken notice that the sheep usually choose for lying down the almost barren spots, not caring to lie down where the grass is rank, unless when they resort to the shelter of some tree for shade in the spring before shearing or when a shower is coming? Almost invariably when not feeding they will go to some side hill to lie down, if such a place is in the pasture, and enrich that by their droppings, while they remain on the more fertile spots only long enough to gather their food.

It would pay the grain farmer to have a movable fence, or, as they are called in England, hurdles, to enclose a flock of sheep where they have taken off oats, rye or wheat, and do not want to put in another crop at once, to keep up the fertility of the soil. In England they are used not only for this, but they often break such fields, and sow them to the English or flat turnip, and then hurdle the sheep on them to eat the turnips after they are fairly well grown. This doubly enriches the field, which is one reason why the fields in England have a heavier turf than we often produce here, and why they carry more cattle and sheep to the acre than we average.

There is still another advantage in a flock of sheep which many farmers do not consider as they should. There are many farmers' families with their hired help who could make good use of the carcass of a sheep or lamb almost each week in cold weather, and there is no meat more nutritious and wholesome unless it is that from the poultry yard. If farmers would produce more of these meats and use them on their tables, they could laugh at the beef trusts and the packers of pork. When we were young there were no meat markets within miles, and although the butcher or meat pedler came round about once a week, he had but little patronage from the farmers. Barrels of salt beef and pork in the cellar, hams and shoulders in the smoke house, and a supply of poultry and eggs almost every day in the year, were the things that gave us the right to claim the title of independent farmers.

The raising of live stock has largely fallen off in the Eastern States with our recollection. We remember when few farmers ever had to buy a horse, and Western horses were almost unknown. There were many who raised a colt nearly every year, at least in Vermont and Maine, and although a few were brought into Massachusetts from Canada, they were uncommon enough to attract notice when seen, and were taken usually by those who had no mares to raise colts from, or who were not farmers and needed the use of a horse every day in the year. They were not high-priced horses thus raised, but they served their owners well, and the farmer found it more profitable to sell than to buy.

Cattle were generally raised, and the yokes of oxen and steers managed to do much of the farm work, and usually sold at prices which, if not up to present beef rates, seemed almost like finding money to those who did not feel the cost of having fed them, as all they had eaten had been grown on the farm. The superannuated cows were consigned to the family beef barrel as heifers were grown to take their places. Farmers usually had a few pigs or hogs to sell to the mill hands and shoemakers who fattened them mostly on their house and garden waste. No longer ago than 1870 there were seven times as many sheep east of the Mississippi river as west of it, and the farmers had lambs, mutton and wool to sell.

All this was not the intensive farming of which so much is said now, and perhaps it would not be wise to revert to the customs of those days, but the stock kept furnished fertilizers for crops that were grown, and there were few deserted farms. When the old people were unable to do the necessary work longer, there was usually another generation ready to take their places, and those who gave up the farm were sure to have a little sum laid by, unless they had been more than usually unfortunate or very extravagant, that supported them in their old age in such comforts as they had been accustomed to.

About the close of the war began a change which grew greater as years passed by. The corn fields disappeared and the stock decreased in number. The cry that "we can buy it cheaper than we can raise it" was applied to grain and to meats, and even to garden vegetables. Those who felt unable to hire help during the war when wages were high, and the prices of produce also high, felt less able to do so when produce prices and land values decreased more rapidly than wages.



AMERICAN HORSE BREEDER.

Locanda.

Land was left unproductive, men and teams were idle with the idea that it cost more to produce a crop here than it did on the fertile and newly settled lands of the West, and it was not remembered that without considering market values the food value of a home-grown crop would be the same. Farmers began to be obliged to buy, and produced nothing to sell, and the farms kept less stock, and less acres were cultivated each year.

Work in the Apple Orchard.

Summer apples should invariably ripen on the trees; so thoroughly ripen that they are ready to fall off. When a slight jar will bring them to the ground is the time to pick. The trouble with much of the fruit in our markets is premature picking. To a certain extent, this is true of winter apples; they should not be picked until all the force of the sunshine and warm weather has been elaborated into the juice. If picked before that, such apples as the Baldwin are unfit for use in the winter. The Red Astrachan and the Sweet Bough are two of the apples which particularly need maturity before picking.

Some of the apples, especially those which ripen in the fall, should be left on the tree as long as they will hang if you wish to know their highest flavor. The Porter of the market is a comparatively flavorless fruit, but if you will let a Porter hang on a tree until lemon yellow, and perhaps a little watery on one side, you will have an apple that is nearly perfect. This question of ripening needs to be considered by apple lovers more than it is. Never buy those in the market which have not a bright color and a smooth skin. The slightest appearance of shriveling indicates a worthless fruit.

The handling of apples must become a prominent topic, and a revolution must be wrought. I discharged one good worker because I could not induce him to lay the apples in the basket. Every one was picked off quickly and either dropped two or three inches or slightly tossed. The result was, of course, to crush two or three cells or more in each apple, and this is the beginning of decay. Although it may not show for weeks, every such apple is ready for premature rotting. Such a barrel, stored side by side with one properly picked, will be undergoing decay two months before the other. In other words, if you want your Baldwin's, your Spitzbergen, Jonathans and Pippins to keep all winter, they must be handled like eggs. What we want during the picking season is not quickness but care. If this cannot be secured, we had better go out of apple growing. I am aware that public sentiment has to be greatly changed about the apple. The fruit placed in market is immature and not decently handled.

Now comes the sorting, and here the habits of the orchardists must be quite as greatly changed as in the picking. America is to become the orchard of the world and to hold the market we have got to learn how to put the best fruit to the front, and so

pack our fruit and store it that it will tell no lies. The grading should be into not less than four packages. There should be the absolutely perfect apples, grade No. 1; then grade No. 2 should be an apple nearly as good as No. 1, and fit for market during the early winter; No. 3 should take in the defective apples or slightly wormy, but yet fairly good fruit, while No. 4 should be turned into cider. Every grade should be properly labeled and never sent into market without a label. Any effort to cheat by packing second grade into the middle of first-grade barrels will be detected and ruin your standing. The time has come when our national honor and our individual honor must go together.

Where apples are to be stored, it is quite time that we talk about cold storage should be better understood. While cold-storage houses are valuable in great orchard sections, nothing of the kind is necessary for the ordinary orchardist. What is wanted is a frost-proof cellar which is moist but not musty, and thoroughly clean.

This cellar should be capable of being closed up tightly after the beginning of freezing weather and only opened for handling purposes during the winter. The windows should be darkened and closed until late in the spring.

I have a brook running through my cellar, and it is very desirable where it is possible. During the warm weather the cellar should be kept absolutely clean and thoroughly ventilated. No rot or mustiness, or bad odors should be tolerated for an hour.

Set it down once more, and do not forget it, that if you wish for healthy trees and normal crops you must spray your apple trees against fungus as thoroughly as against insects and worms. Spray in the fall with lime mixture until the trees are well coated, and in the spring spray very early with bordeaux as a preventive against fungus.—New York Tribune.

The beet-sugar men of the West make great pretense of their ability to compete with cane sugar grown in the tropics, but

space than I can afford to give it. The Northern Spy, with its large, round head, is an object of superb beauty, while the Baldwin, with its characteristic abandon of growth, gives the impression of strength and character.

Can we have long-lived apple trees—as long as those which were planted by our fathers? I have still standing four trees, which were planted in 1791; but they are in better preservation than some trees that were planted since 1850. What is the trouble?

Evidently in planting a large orchard it should be a factor to secure labor that should be lasting as well as fruit of high character. Some of our best varieties of apples must be grafted high up, on seedlings, or double worked on other varieties. I do not see why, with hardy stock secured, and with proper feeding of our apple trees may not last at least one hundred years. This age cannot be secured for neglected or for half-starved trees; nor for trees that are bruised and gnawed by animals; nor for those whose roots are torn by the plow; nor for those which are beaten or pounded to secure the fruit. A well-kept apple tree ought to last considerably more than one hundred years, bearing good crops all the while.

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all the experience we have had in the East particularly at Portland, Me., and Franklin, Mass., was to the effect that the beets raised were worth more for cattle food than for making into sugar. We do not believe the production of beet sugar by high-priced labor in this country will ever be a success. Of course, if it becomes desirable to employ women and children, at starvation wages, in weeding beets and growing the crop, perhaps something may be done in that industry, but we think root growing would be very much more profitable as cattle food than any attempts to produce beet sugar in New England or New York.

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good breeding or good feeding. Canners and cutters sold from \$1 to \$2.50, fat cows from \$2.50 to \$5.25, heifers from \$2.40 to \$6.25, bulls from \$2.25 to \$5.50 and calves from \$1.50 to \$3.50. Prime stock is about forty cents a hundred pounds less than last week, they are \$1.50 higher than one year ago, and we can scarcely find fault with the marketman if he asks more for his steaks and roasts.

W. A. Stockwell of West Lebanon, N. H., has purchased from Hood Farm, Lowell, Mass., a pair of yearling heifers and a good Farm Pidgeon, out of Sophie, 6th of Hood Farm, a mare which is the mother of the Hood Farm herd, won first prize at the head of the Hood Farm Show herd, winning many first prizes in the East. In 1899 he was first-prize bull at the Wisconsin and Illinois State fairs. His son, Hood Farm Pidgeon, 9th, also a prize winner, out of the phenomenal cow Biggs, that sold at auction for \$875, is now at the head of the Hood Farm herd. Sophie, 6th, traced back to importers, Torrington, Conn., to her son a great butter inheritance. The young bull is rich in both dairy and show qualities, and will do much to bring up the standard of the herd into which he goes.

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17625—ROCKAWAY, platform, pole and shafts, leather seats, extra high, and satin, almost new, and light. \$500

15271—ROCKAWAY, maroon cloth and shafts, leather seats, extra high, seat for child. \$250

15458—ROCKAWAY, octagon, pole and shafts, rubber tires, green cloth and leather trimmings, medium weight. \$290

15223—DEPOT WAGON, green cloth, rubber tires, very light, good condition. \$175

12223—DEPOT WAGON, foot brake, rubber tires, whipcord trimmings, tall gate, used one year. \$275

14121—DEPOT WAGON, light whipcord, rubber tires. \$100

16207—DEPOT WAGON, rubber tires, half platform, green cloth trimmings, inside cloth partition for winter use. \$275

18247—DEPOT WAGON, rubber tires, light whipcord, used three months and now in need of repair. \$350

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